



SEQUENCE LISTING

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<150> US 09/632,429

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<151> 1999-08-23

<160> 109

<170> PatentIn version 3.3

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Val Gly Leu Val
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Ser Glu Glu Trp Glu Val Leu Cys Trp Thr Trp Glu Asp Cys Arg Leu
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Glu Gly Leu Glu
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Trp Glu Val Leu Cys Trp Thr Trp Glu Asp Cys Glu Arg
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Trp Glu Val Val Cys Trp Thr Trp Glu Thr Cys Glu Arg
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Ser Glu Glu Trp Glu Val Leu Cys Trp Thr Trp Glu Asp Cys Arg
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 Glu Glu Trp Glu Val Leu Cys Trp Thr Trp Glu Asp Cys Arg
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Val Leu Cys Trp Thr Trp Glu Asp Cys Arg
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Cys Trp Thr Trp Glu Asp Cys Arg
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Cys Trp Thr Trp Glu Asp Cys Glu Arg
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Cys Trp Thr Trp Glu Thr Cys Glu
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Glu Trp Glu Val Leu Cys Trp Thr Trp Glu Thr Cys Glu Arg Gly Glu
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Glu Glu Trp Glu Val Leu Cys Trp Thr Trp Glu Thr Cys Glu Arg Gly
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Glu Gly

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Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Glu Trp Glu Val Leu Cys Trp Thr Trp Glu Thr Cys Glu Arg
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Trp Lys Val Leu Cys Ala Thr Trp Ala Thr Cys Gln Arg
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Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Glu Trp Glu Val Ala Cys Trp Thr Trp Glu Thr Cys Glu Arg Gly
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Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Glu Trp Glu Val Leu Cys Ala Thr Trp Glu Thr Cys Glu Arg Gly
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Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Glu Trp Glu Val Leu Cys Trp Ala Trp Glu Thr Cys Glu Arg Gly
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Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Glu Trp Glu Val Leu Cys Trp Thr Trp Ala Thr Cys Glu Arg Gly
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Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Glu Trp Glu Val Leu Cys Trp Thr Trp Glu Ala Cys Glu Arg Gly
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Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Glu Trp Glu Val Leu Cys Trp Thr Trp Glu Thr Cys Ala Arg Gly
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Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Glu Trp Glu Val Leu Cys Trp Thr Trp Glu Thr Cys Glu Ala Gly
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Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Glu Trp Glu Val Leu Cys Trp Thr Trp Glu Thr Cys Glu Arg Ala
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Glu Gly Gly Gly Gly Ser Gly Gly
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Ala Gly Gly Gly Gly Ser Gly Gly
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Glu Ala Gly Gly Gly Ser Gly Gly
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Glu Glu Trp Glu Ile Leu Cys Trp Thr Trp Glu Thr Cys Glu Arg Gly
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Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Glu Trp Glu Val Leu Cys Trp Thr Phe Glu Thr Cys Glu Arg Gly
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Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Glu Trp Glu Val Leu Cys Trp Thr Trp Arg Thr Cys Glu Arg Gly
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Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Glu Trp Glu Val Leu Cys Trp Thr Trp Gln Thr Cys Glu Arg Gly
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Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Glu Trp Glu Val Leu Cys Trp Thr Trp Glu Thr Cys Glu Lys Gly
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Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Glu Trp Glu Val Leu Cys Trp Thr Trp Glu Thr Cys Glu Leu Gly
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Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Glu Trp Glu Val Leu Cys Trp Thr Trp Glu Thr Cys Glu Trp Gly
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Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Glu Trp Glu Val Leu Ala Trp Thr Trp Glu Thr Ala Glu Arg Gly
1 5 10 15

Glu Gly Gly Gly Gly Ser Gly Gly
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Trp Glu Val Leu Cys Trp Thr Trp Glu Thr Cys Glu Arg Gly Glu Gly
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Gly Gly Gly Ser Gly Gly
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Glu Glu Phe Glu Val Leu Cys Trp Thr Trp Glu Thr Cys Glu Arg Gly
1 5 10 15

Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Glu Leu Glu Val Leu Cys Trp Thr Trp Glu Thr Cys Glu Arg Gly
1 5 10 15

Glu Gly Gly Gly Gly Ser Gly Gly
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Phe Glu Val Leu Cys Trp Thr Trp Glu Thr Cys Glu Arg Gly Glu Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly
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Phe Glu Val Leu Cys Met Thr Trp Glu Thr Cys Glu Arg Gly Glu Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly
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Glu Glu Tyr Glu Val Leu Cys Trp Thr Trp Glu Thr Cys Glu Arg Gly
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Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Glu Trp Glu Val Leu Cys Tyr Thr Trp Glu Thr Cys Glu Arg Gly
1 5 10 15

Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Glu Trp Glu Val Leu Cys Trp Thr Tyr Glu Thr Cys Glu Arg Gly
1 5 10 15

Glu Gly Gly Gly Gly Ser Gly Gly
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Glu Glu Trp Glu Val Leu Cys Trp Thr Trp Glu Thr Cys Glu Trp Lys
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Glu Gly Gly Gly Gly Ser Gly Gly
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Gly Ala Glu Trp Glu Val Leu Cys Trp Glu Trp Glu Gly Cys Glu Ser
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Val Trp Pro Gly
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Gly Ala Glu Trp Glu Val Leu Cys Trp Thr Trp Glu Gln Cys Glu Phe
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Gly Ser Leu Val
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Asn Ala Gly Trp Glu Val Leu Cys Trp Thr Trp Glu Asp Cys Gly Pro
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Met Asp Pro Ala
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Arg Asp Gly Trp Glu Val Val Cys Trp Glu Trp Glu Gly Cys Glu Arg
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Ala Val Asp Val
20

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Ser Gly Glu Trp Glu Val Leu Cys Trp Thr Trp Glu Ala Cys Gly Trp
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Glu Ser Gly Glu
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Ser Thr Glu Trp Glu Val Leu Cys Trp Thr Trp Glu Gly Cys Gly Trp
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Gly Gly Ile Glu
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<400> 72

Ser Asp Glu Trp Glu Val Val Cys Trp Thr Trp Glu Ala Cys Glu Thr
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Val Gly Leu Gly
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<400> 73

Ser Ala Glu Trp Glu Val Ile Cys Trp Thr Trp Glu Ser Cys Glu Trp
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Gly Gly Leu Gly
20

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<400> 74

Ser Ala Glu Trp Glu Val Leu Cys Trp Thr Trp Glu Glu Cys Gly Ser
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Val Trp Pro Pro
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<400> 75

Thr Ala Gly Trp Glu Val Leu Cys Trp Thr Trp Glu Asp Cys Gly Pro
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Leu Gly Pro Val
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<400> 76

Ala Trp Glu Val Leu Cys Trp Ala Trp Glu Asp Cys Glu Arg Gly Ala
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Gly Ser

<210> 77

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Ala Trp Glu Val Val Cys Trp Ser Trp Glu Thr Cys Glu Arg Gly Glu
1 5 10 15

Thr Pro

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<400> 78

Glu	Trp	Glu	Val	Val	Cys	Trp	Ala	Trp	Glu	Thr	Cys	Glu	Arg	Gly	Glu
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Arg Gln

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<400> 79

Glu	Trp	Glu	Val	Leu	Cys	Trp	Glu	Trp	Glu	Val	Cys	Glu	Arg	Asp	Ile
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Thr Leu

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Glu	Trp	Glu	Val	Val	Cys	Trp	Thr	Trp	Glu	Ala	Cys	Glu	Leu	Gly	Glu
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Arg Val

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<400> 81

Gly Trp Glu Val Val Cys Trp Ser Trp Glu Ser Cys Ala Arg Gly Asp
1 5 10 15

Leu Glu

<210> 82
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<400> 82

Ala Trp Glu Val Val Cys Trp Ser Trp Glu Thr Cys Glu
1 5 10

<210> 83
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<400> 83

Glu Trp Glu Val Val Cys Trp Glu Trp Glu Asn Cys Leu
1 5 10

<210> 84
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<400> 84

Glu Trp Glu Val Leu Cys Trp Gly Trp Glu Thr Cys Ser
1 5 10

<210> 85
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<400> 85

Gly Trp Glu Val Leu Cys Trp Thr Trp Glu Glu Cys Ser
1 5 10

<210> 86
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<400> 86

Ser Trp Glu Val Leu Cys Trp Gln Trp Glu Glu Cys Glu
1 5 10

<210> 87
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<400> 87

Thr Trp Glu Val Leu Cys Trp Ser Trp Glu Ser Cys Glu
1 5 10

<210> 88
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<400> 88

Met Glu Thr Trp Glu Val Leu Cys Trp Glu Trp Glu Glu Cys Val Arg
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Gly Gly Glu Pro
1 20

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<400> 89

Ala Val Glu Trp Glu Val Ile Cys Trp Ala Trp Glu Thr Cys Glu Arg
1 5 10 15

Ser Asn Met Gln
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Ala Val Gln Trp Glu Val Leu Cys Trp Gln Trp Glu Asn Cys His Arg
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Gly Glu Gln Val
20

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<400> 91

Met Gln Gly Trp Glu Val Val Cys Trp Glu Trp Glu Gly Cys Ala Arg
1 5 10 15

Gly Asp His Gln
20

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<400> 92

Glu Glu Gln Trp Glu Val Val Cys Trp Asp Trp Glu Thr Cys Asp Trp
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Pro Gly Lys Asp
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Leu Gly Glu Trp Glu Val Met Cys Trp Thr Trp Glu Ser Cys Gly Trp
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Pro Val Gly Ser
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<212> PRT

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<400> 94

Met Leu Asp Trp Glu Val Val Cys Trp Thr Trp Glu Ser Cys Val Arg
1 5 10 15

Glu Gly Lys Gln
20

<210> 95

<211> 20

<212> PRT

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<400> 95

Lys Asn Gly Trp Glu Val Leu Cys Trp Thr Trp Glu Thr Cys Gly Arg
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Gly Val Gly Asp
20

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<400> 96

Gly Ala Pro Trp Glu Val Val Cys Trp Ser Trp Glu Ser Cys Ser Trp
1 5 10 15

Gly Val Ala Ser
20

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<400> 97

Glu Asp Leu Trp Glu Val Val Cys Trp Ser Trp Glu Ala Cys Ser Arg
1 5 10 15

Glu Gly Thr Gln
20

<210> 98
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<212> PRT
<213> Staphylococcus aureus

<400> 98

Ala Gln His Asp Glu Ala Val Asp Asn Lys Phe Asn Lys Glu Gln Gln
1 5 10 15

Asn Ala Phe Tyr Glu Ile Leu His Leu Pro Asn Leu Asn Glu Glu Gln
20 25 30

Arg Asn Ala Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala
35 40 45

Asn Leu Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Asn
 50 55 60

Val Asp Met Asn
 65

<210> 99
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide linker

<400> 99

Gly Gly Gly Ser Gly Gly
 1 5

<210> 100
 <211> 5
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 <213> Artificial Sequence

<220>
 <223> Synthetic peptide sequence

<400> 100

Trp Thr Trp Glu Thr
 1 5

<210> 101
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<220>
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<400> 101

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
65 70 75 80

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
85 90 95

Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa
100 105 110

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
115 120 125

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
130 135 140

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
145 150 155 160

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
165 170 175

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
180 185 190

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

195

200

205

<210> 102
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide sequence

<220>
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<222> (1)..(2)
<223> Xaa is any amino acid

<220>
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<222> (3)..(3)
<223> Xaa is Trp, Phe, Leu, Ala, Met, or Val

<220>
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<222> (4)..(4)
<223> Xaa is any amino acid

<220>
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<222> (5)..(5)
<223> Xaa is Val, Ile, Ala, Trp, or Tyr

<220>
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<222> (6)..(6)
<223> Xaa is Leu, Ile, Met, Val, or Ala

<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> Xaa is Trp, Phe, Leu, Met, Ala, or Val

<220>
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<222> (9)..(9)
<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Xaa is Trp, Phe, Met, or Tyr

<220>
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<222> (11)..(12)
<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (14)..(14)

<223> Xaa is any amino acid except Pro

<220>

<221> MISC_FEATURE

<222> (15)..(15)

<223> Xaa is Arg, Lys, Leu, Trp, His, or Met

<220>

<221> MISC_FEATURE

<222> (16)..(18)

<223> Xaa is any amino acid

<400> 102

Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
1 5 10 15

Xaa Xaa

<210> 103

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic peptide sequence

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<222> (1)..(14)

<223> Xaa is any naturally occurring L-amino acid and sequence length
is 20

<220>

<221> MISC_FEATURE

<222> (16)..(19)

<223> Xaa is any naturally occurring L-amino acid

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<222> (20)..(25)

<223> Xaa is any naturally occurring L-amino acid and sequence length
is 20

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<221> MISC_FEATURE

<222> (27)..(40)

<223> Xaa is any naturally occurring L-amino acid and sequence length
is 20

<400> 103

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40

<210> 104
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide sequence

<220>
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<222> (1)..(20)
<223> Xaa is any amino acid

<400> 104

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa
20

<210> 105
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide sequence

<220>
<221> MISC_FEATURE
<222> (1)..(4)
<223> Xaa is any naturally occurring amino acid

<220>
<221> MISC_FEATURE
<222> (6)..(7)
<223> Xaa is any naturally occurring amino acid

<220>
<221> MISC_FEATURE
<222> (10)..(13)
<223> Xaa is any naturally occurring amino acid

<220>
<221> MISC_FEATURE
<222> (15)..(18)
<223> Xaa is any naturally occurring amino acid

<400> 105

Xaa Xaa Xaa Xaa Cys Xaa Xaa Gly Pro Xaa Xaa Xaa Xaa Cys Xaa Xaa
1 5 10 15

Xaa Xaa

<210> 106

<211> 18

<212> PRT

<213> Artificial Sequence

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<223> Synthetic peptide sequence

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<221> MISC_FEATURE

<222> (1)..(1)

<223> Xaa is any amino acid

<220>

<221> MISC_FEATURE

<222> (5)..(5)

<223> Xaa is any amino acid

<220>

<221> MISC_FEATURE

<222> (8)..(8)

<223> Xaa is any amino acid

<220>

<221> MISC_FEATURE

<222> (11)..(11)

<223> Xaa is any amino acid

<220>

<221> MISC_FEATURE

<222> (13)..(18)

<223> Xaa is any amino acid

<400> 106

Xaa Trp Glu Val Xaa Cys Trp Xaa Trp Glu Xaa Cys Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa

<210> 107

<211> 13

<212> PRT

<213> Artificial Sequence

<220>
<223> Synthetic peptide sequence

<220>
<221> MISC_FEATURE
<222> (1)..(1)
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<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (13)..(13)
<223> Xaa is any amino acid

<400> 107

Xaa Trp Glu Val Xaa Cys Trp Xaa Trp Glu Xaa Cys Xaa
1 5 10

<210> 108
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide sequence

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<223> Xaa is any amino acid

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<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa is any amino acid

<220>
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<222> (10)..(10)
<223> Xaa is any amino acid

<220>

<221> MISC_FEATURE
 <222> (13)..(13)
 <223> Xaa is any amino acid

<220>
 <221> MISC_FEATURE
 <222> (15)..(20)
 <223> Xaa is any amino acid

<400> 108

Xaa	Xaa	Xaa	Trp	Glu	Val	Xaa	Cys	Trp	Xaa	Trp	Glu	Xaa	Cys	Xaa	Xaa
1				5				10					15		

Xaa	Xaa	Xaa	Xaa
			20

<210> 109
 <211> 113
 <212> PRT
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<220>
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<220>
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 <223> Xaa is any amino acid

<220>
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 <222> (8)..(8)
 <223> Xaa is Trp, Thr, Ala, Phe, Leu, Met, or Tyr

<220>
 <221> MISC_FEATURE
 <222> (9)..(9)
 <223> Xaa is Thr, Asp, or Ala

<220>
 <221> MISC_FEATURE
 <222> (10)..(10)
 <223> Xaa is Trp, Ala, Phe, Leu, or Tyr

<220>
 <221> MISC_FEATURE
 <222> (11)..(11)
 <223> Xaa is Glu, Ala, Arg, or Gln

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa is Gly, Asp, Thr, Ser, or Ala

<220>
 <221> MISC_FEATURE

<222> (14)..(113)

<223> Xaa is absent or any amino acid

<400> 109

Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
65 70 75 80

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
85 90 95

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
100 105 110

Xaa